

Notice of Allowability

Application No.

09/856,283

Examiner

Shewaye Gelagay

Applicant(s)

COLLINS, LYAL SIDNEY

Art Unit

2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/13/06.
2. ☒ The allowed claim(s) is/are 1-4, 14, 15 and 17-24.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for the Examiner's amendment was given in a telephone interview with Brian W. Hameder (312) 427-1300 on March 1, 2006.

3. Please amend the application as follows:

Amend the Abstract as follows:

ABSTRACT

A method for securely encoding and transmitting a message by an originating device to one of a plurality of recipient devices, said message being associated with a particular one of a plurality of application running on the originating device.

Transmission is generated by using a device identifier, an application identifier and an application value, of a message value; combining the message value with one or more first secret values, said secret values being known substantially only to the originating device and one or more intended recipient device of the message, to establish a secret message value; applying the secret message value and the message to an encoding process to form a secure message block, and combining an address with a device

identifier, the application identifier, the application value and the secure message block, to form a secure message for transmission which is decodable by the one or more of said intended recipient devices which thereby recover the message, the address, the device identifier, the application identifier and the application value.

Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance: The instant claimed invention is directed to a method of providing secure communications. The primary reason for allowance over the prior art on record is that no prior art teaches or fairly suggests, the limitation such as an originating device is adapted for securely encoding and transmitting a message to one of a plurality of recipient devices, the message being associated with a particular one of a plurality of applications running the originating device, the originating device comprising:

(a) means for determining a device identifier for the originating device, and an application identifier for each of the plurality of applications thereby forming a plurality of device- identifier/application identifier pairs; (b) means for associating a secret value with each device-identifier/application-identifier pair; (c) means for wherein each said secret value is known to the originating device and to one of the recipient devices; (d) means for generating a message value by a first process, using the device identifier a particular application identifier and an application value, said application value indexing said message; (e) means for combining the message value with said secret value associated with the particular application identifier to establish a corresponding secret

message value; (f) means for applying secret message value and the message to an encoding process to form a secure message block; (g) means for combining the device identifier, the application identifier, the application value and the secure message block, to form a secure message for transmission, said secure message being decodable, dependent upon the device, identifier, the particular application identifier and the application value which are outside the received secure message block by said recipient device to which said secret value associated with particular application identifier is known, said recipient device thereby recovering the message, the device identifier, the particular application identifier and the application value ; and wherein;

said recipient device is adopted for reception of a securely transmitted message, the recipient device being one of the plurality of recipient devices adapted to receive a message from the originating device, said message being associated with a particular one of a plurality of applications running on the originating device, the recipient device comprising:

(i) means for extracting one or more of a device identifier, an application identifier and an application value from a received secure message having secure message block, said one or more of the device identifier, the application identifier, and the application value being outside the secure message block; (j) means for generating by a first process using the device identifier, the application identifier and the application value a message value; (k) means for generating, according to a second process using the device identifier and the application identifier a secret values; (l) means for combining the message value with the secret values, to establish a secret message

value; (m) means for extracting a secure message block from the received secure message; and (n) means for applying the secret message value and the secure message block to a decoding process to form the securely transmitted message, this message having been securely transmitted by the originating device.

None of the prior arts of record teach or fairly suggest all the limitations in the independent claim 20. In particular (a) means for determining a device identifier for the originating device, and an application identifier for each of the plurality of applications thereby forming a plurality of device- identifier/application identifier pairs; (b) means for associating a secret value with each device-identifier/application-identifier pair; (d) means for generating a message value by a first process, using the device identifier a particular application identifier and an application value, said application value indexing said message; (e) means for combining the message value with said secret value associated with the particular application identifier to establish a corresponding secret message value; (g) means for combining the device identifier, the application identifier, the application value and the secure message block, to form a secure message for transmission, said secure message being decodable, dependent upon the device, identifier, the particular application identifier and the application value. And said recipient device to which said secret value associated with particular application identifier is known, thereby recovering the message, the device identifier, the particular application identifier and the application value; by applying the device identifier, application identifier, application value and the secret value in the decoding process.

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Independent claims 1, 4, 14 and 17-19 have similar limitations as independent claim 20 and therefore are allowed for similar reasons.

Dependent claims 2, 3, 15, 21-24 depend from independent claim 1 and inherently include limitations therein and therefore are allowed as well.

If applicants are aware of better art than that which has been on record, they are required to call such attention to the examiner. Furthermore, any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Shewaye Gelagay

3/1/06


EMMANUEL L. MOISE
SUPERVISORY PATENT EXAMINER